lawwenda - Plugin API Documentation

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Lawwenda has a plugin interface which allows to add functionality to the core from outside.

TODO not yet available

CHAPTER

ONE

API REFERENCE

1.1 lawwenda package

1.1.1 Subpackages

lawwenda.previewer package

Submodules

lawwenda.previewer.commonimages module

class lawwenda.previewer.commonimages.**CommonImagesPreviewer**

Bases: *lawwenda.previewer.Previewer*

_abc_impl = <_abc_data object>

is_previewable(*iar*)

Return if this previewer is able to generate an html preview snippet for a file.

Note that this decision has to be made with very few information, e.g. without knowing the file content, for performance reasons.

See also *preview_html()*.

Parameters **iar** – An object that describes the file.

is_thumbnailable(*iar*)

Return if this previewer is able to generate a thumbnail for a file.

Note that this decision has to be made with very few information, e.g. without knowing the file content, for performance reasons.

See also *thumbnail()*.

Parameters **iar** – An object that describes the file.

preview_html(*node*)

Return an html snippet that shows a preview of a file.

This is larger and richer in terms of flexibility than thumbnails, and is typically used by the file details panel.

See also *is_previewable()*.

Parameters **node** – The file to preview.

thumbnail(*node*)
Return a thumbnail for a file in PNG format.

See also *is_thumbnailable()*.

Parameters **node** – The file to generate a thumbnail for.

lawwenda.previewer.commonvideos module

class lawwenda.previewer.commonvideos.**CommonVideosPreviewer**
Bases: *lawwenda.previewer.Previewer*

__ffmpeg_thumb(*stdin=- 3*)

Parameters

- **inputpath** (*str*) –
- **stdin** (*Any*) –

Return type bytes

_abc_impl = <_abc_data object>

is_previewable(*iar*)
Return if this previewer is able to generate an html preview snippet for a file.

Note that this decision has to be made with very few information, e.g. without knowing the file content, for performance reasons.

See also *preview_html()*.

Parameters **iar** – An object that describes the file.

is_thumbnailable(*iar*)
Return if this previewer is able to generate a thumbnail for a file.

Note that this decision has to be made with very few information, e.g. without knowing the file content, for performance reasons.

See also *thumbnail()*.

Parameters **iar** – An object that describes the file.

preview_html(*node*)
Return an html snippet that shows a preview of a file.

This is larger and richer in terms of flexibility than thumbnails, and is typically used by the file details panel.

See also *is_previewable()*.

Parameters **node** – The file to preview.

thumbnail(*node*)
Return a thumbnail for a file in PNG format.

See also *is_thumbnailable()*.

Parameters **node** – The file to generate a thumbnail for.

Module contents

class lawwenda.previewer.**IsAbleRequest**(*name*, *mimetype*)
Bases: object

Information about a particular file, used for asking a *Previewer* if it can provide some functionality for that file.

Instances of this class are used as an argument to some *Previewer* methods.

The available infos are not very rich for performance reasons.

Parameters

- **name** (*str*) –
- **mimetype** (*str*) –

Return type None

mimetype: str

name: str

class lawwenda.previewer.**Previewer**
Bases: abc.ABC

Base class for previewers.

Subclasses implement thumbnail and preview functionality for particular file formats.

_abc_impl = <_abc_data object>

_image_scale_to_thumbnail_size(*imgdata*)

Parameters **imgdata** (*BinaryIO*) –

Return type _io.BytesIO

abstract is_previewable(*iar*)
Return if this previewer is able to generate an html preview snippet for a file.

Note that this decision has to be made with very few information, e.g. without knowing the file content, for performance reasons.

See also *preview_html()*.

Parameters **iar** (lawwenda.previewer.IsAbleRequest) – An object that describes the file.

Return type bool

abstract is_thumbnailable(*iar*)
Return if this previewer is able to generate a thumbnail for a file.

Note that this decision has to be made with very few information, e.g. without knowing the file content, for performance reasons.

See also *thumbnail()*.

Parameters **iar** (lawwenda.previewer.IsAbleRequest) – An object that describes the file.

Return type bool

abstract preview_html(*node*)
Return an html snippet that shows a preview of a file.

This is larger and richer in terms of flexibility than thumbnails, and is typically used by the file details panel.

See also *is_previewable()*.

Parameters **node** (lawwenda.fs.Filesystem.Node) – The file to preview.

Return type str

thumbheight = 300

abstract thumbnail(*node*)
Return a thumbnail for a file in PNG format.

See also *is_thumbnailable()*.

Parameters **node** (lawwenda.fs.Filesystem.Node) – The file to generate a thumbnail for.

Return type bytes

thumbsize = (300, 300)

thumbwidth = 300

lawwenda.search package

Module contents

class lawwenda.search.**ByGeoSearch**(*position*, *radius*)
Bases: *lawwenda.search.Search*

Searches for files that are associated with a particular geographic region.

See also *lawwenda.fs.Filesystem.Node.geo*.

Parameters

- **position** (*str*) –
- **radius** (*str*) –

__decide(*node*)

Parameters **node** (*FilesystemNode*) –

Return type bool

query(*node*)
Return a list of nodes that match the criteria of this search, starting from a given root node.

Parameters **node** – The root node. Query result nodes are usually inside that subtree.

class lawwenda.search.**ByNameSearch**(*term*)
Bases: *lawwenda.search.Search*

Searches for search terms in file names.

See also *lawwenda.fs.Filesystem.Node.name*.

Parameters **term** (*str*) –

__decide(*node*)

Parameters **node** (*FilesystemNode*) –

Return type bool

query(*node*)
Return a list of nodes that match the criteria of this search, starting from a given root node.

Parameters **node** – The root node. Query result nodes are usually inside that subtree.

class lawwenda.search.**ByTagSearch**(*term*)
Bases: *lawwenda.search.Search*

Searches for files that have particular tags.

See also *lawwenda.fs.Filesystem.Node.tags*.

Parameters **term** (*str*) –

__decide(*node*)

Parameters **node** (*FilesystemNode*) –

Return type bool

query(*node*)
Return a list of nodes that match the criteria of this search, starting from a given root node.

Parameters **node** – The root node. Query result nodes are usually inside that subtree.

class lawwenda.search.**DeeplySearch**(*term*)
Bases: *lawwenda.search.Search*

Deep searches look for search terms in some places, like file names or comments, but also in fulltext indexes or - as a fallback - directly in the content of each file.

This is a rather versatile search behavior, but is not precisely defined, and can be impractically slow if not fulltext index is available.

Parameters **term** (*str*) –

__decide_unindexed(*node*)

Parameters **node** (*FilesystemNode*) –

Return type bool

__decide_unindexed_by_content(*node*)

Parameters **node** (*FilesystemNode*) –

Return type bool

__decide_unindexed_by_metadata(*node*)

Parameters **node** (*FilesystemNode*) –

Return type bool

__query_indexed(*idxdata*)

Parameters

- **node** (*FilesystemNode*) –
- **idxdata** (*object*) –

Return type FilesystemNodes

__query_unindexed()

Parameters **node** (*FilesystemNode*) –

Return type FilesystemNodes

__try_get_index(*node*)

Parameters **node** (*FilesystemNode*) –

Return type object

query(*node*)

Return a list of nodes that match the criteria of this search, starting from a given root node.

Parameters **node** – The root node. Query result nodes are usually inside that subtree.

class lawwenda.search.**Search**

Bases: object

Base class for different search behaviors.

query(*node*)

Return a list of nodes that match the criteria of this search, starting from a given root node.

Parameters **node** (*FilesystemNode*) – The root node. Query result nodes are usually inside that subtree.

Return type FilesystemNodes

lawwenda.search.**_query_by_tree_traversal**(*node*, *decidefct*)

Parameters

- **node** (*FilesystemNode*) –
- **decidefct** (*Callable[[FilesystemNode], bool]*) –

Return type FilesystemNodes

lawwenda.search.**_termstring_to_termlist**(*term*)

Parameters **term** (*str*) –

Return type List[str]

lawwenda.search.**create_search**(*mode*, ***kwargs*)

Return a Search object with a particular configuration.

Parameters

- **mode** (*str*) – The search mode string.
- **kwargs** – Additional search arguments, specific to the chosen *mode*.

Return type *lawwenda.search.Search*

lawwenda.sharehttpapp package

Submodules

lawwenda.sharehttpapp.davprop module

class lawwenda.sharehttpapp.davprop.**CommentDavProp**

Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

class lawwenda.sharehttpapp.davprop.**DavProp**(*davname*, *, *is_writable*)
Bases: object

Parameters

- **davname** (*str*) –
- **is_writable** (*bool*) –

property davname

Return type str

Return type str

Return type str

Return type str

get_for_node(*fsnode*)

Parameters **fsnode** (lawwenda.fs.Filesystem.Node) –

Return type Optional[str]

property is_writable

Return type bool

Return type bool

Return type bool

Return type bool

class lawwenda.sharehttpapp.davprop.**GeoDavProp**
Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

class lawwenda.sharehttpapp.davprop.**MtimeDavProp**
Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

class lawwenda.sharehttpapp.davprop.**RatingDavProp**
Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

class lawwenda.sharehttpapp.davprop.**ResourceTypeDavProp**
Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

class lawwenda.sharehttpapp.davprop.**SizeDavProp**
Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

class lawwenda.sharehttpapp.davprop.**TagsDavProp**
Bases: *lawwenda.sharehttpapp.davprop.DavProp*

get_for_node(*fsnode*)

lawwenda.sharehttpapp.davprop.**get_prop_by_davname**(*davname*)

Parameters **davname** (*str*) –

Return type Optional[*lawwenda.sharehttpapp.davprop.DavProp*]

lawwenda.sharehttpapp.davprop.**register_prop**(*prop*)

Parameters **prop** (*Type[DavProp]*) –

Return type Type[*lawwenda.sharehttpapp.davprop.DavProp*]

Module contents

class lawwenda.sharehttpapp.**ShareHttpApp**(*filesystem*)

Bases: object

A wsgi application that provides an http interface to a filesystem.

It provides bare http access, and also WebDAV extensions for a more complete interface. It does not provide an own user interface.

Parameters **filesystem** (lawwenda.fs.Filesystem) –

property **__allowed_methods**

Return type t.List[str]

Return type t.List[str]

Return type t.List[str]

Return type t.List[str]

_method_copy(*request*, *fsnode*, *, *xfermethod='copy_to'*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –
- **xfermethod** (*str*) –

_method_delete(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_get(*request*, *fsnode*, *is_head_request=False*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –
- **is_head_request** (*bool*) –

_method_head(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_mkcol(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_move(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_options(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_propfind(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_proppatch(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

_method_put(*request*, *fsnode*)

Parameters

- **request** (lawwenda.comm.Request) –
- **fsnode** (lawwenda.fs.Filesystem.Node) –

1.1.2 Submodules

1.1.3 lawwenda.comm module

Internal communication helpers.

class lawwenda.comm.**JsonedResponse**(*data*, ***kwargs*)

Bases: werkzeug.wrappers.response.Response

A werkzeug response that serializes response data to json.

Parameters **data** (*Optional[Any]*) – Response data. Can be anything that *json* is able to serialize.

class lawwenda.comm.**Request**(*environ*, *populate_request=True*, *shallow=False*)

Bases: werkzeug.wrappers.request.Request, werkzeug.wrappers.json.JSONMixin

A werkzeug request that is able to interpret json data in the response body.

1.1.4 lawwenda.datafiles module

lawwenda.datafiles.**find_data_file**(*fname*, *searchdirs=None*)
Return the absolute path of a Lawwenda data file.

Can return *None* if no such file exists.

Parameters

- **fname** (*str*) – The name of the file to find.
- **searchdirs** (*Optional[Iterable[str]]*) – List of directories to look into. If not specified (as it usually should be), it looks at some usual places.

Return type Optional[str]

1.1.5 lawwenda.devserver module

class lawwenda.devserver.**_DevServerInfo**(*svr*, *svrthread*)
Bases: object

shutdown()

Return type None

property url

Return type str

Return type str

Return type str

Return type str

wait_stopped()

Return type None

class lawwenda.devserver.**_DevServerThread**(*svr*)
Bases: threading.Thread

This constructor should always be called with keyword arguments. Arguments are:

group should be None; reserved for future extension when a ThreadGroup class is implemented.

target is the callable object to be invoked by the run() method. Defaults to None, meaning nothing is called.

name is the thread name. By default, a unique name is constructed of the form "Thread-N" where N is a small decimal number.

args is the argument tuple for the target invocation. Defaults to ().

kwargs is a dictionary of keyword arguments for the target invocation. Defaults to {}.

If a subclass overrides the constructor, it must make sure to invoke the base class constructor (Thread.__init__()) before doing anything else to the thread.

run()
Method representing the thread's activity.

You may override this method in a subclass. The standard run() method invokes the callable object passed to the object's constructor as the target argument, if any, with sequential and keyword arguments taken from the args and kwargs arguments, respectively.

lawwenda.devserver.**get_running_dev_servers**()
Return the servers started by *run_dev_server()* that are currently running.

Return type Iterable[*lawwenda.devserver._DevServerInfo*]

lawwenda.devserver.**run_dev_server**(*cfg*)
Start a tiny local server for a given configuration.

Such a server can be used for trying, development, testing, and so on, but is not recommended for real usage.

It will automatically find a free port and will return a control object that contains the full url, and more.

Parameters **cfg** (lawwenda.Configuration) – The configuration.

Return type *lawwenda.devserver._DevServerInfo*

1.1.6 lawwenda.fmapp module

class lawwenda.fmapp.**FmApp**(*share*)
Bases: object

Parameters **share** (lawwenda.Share) –

__auth(*username*, *password*)

Parameters

- **username** (*str*) –
- **password** (*str*) –

Return type bool

__dispatch_request(*request*)

__dispatch_request_internals(*request*)

__dispatch_request_normal(*request*)

__ensure_authed(*request*)

__on_api_copymove(*request*, *action*)

__render_template(*template*, *, *html_head_inner=''*, *path=''*, *headonly=False*, *url_internals_name='.~__lawwenda__int~'*, ***kwargs*)

Parameters

- **template** (*str*) –
- **html_head_inner** (*str*) –
- **path** (*str*) –
- **headonly** (*bool*) –
- **url_internals_name** (*str*) –

Return type werkzeug.wrappers.response.Response

__render_template_text(*template*, *, *csrftoken*, *html_head_inner*, ***kwargs*)

Parameters

- **template** (*str*) –
- **csrftoken** (*str*) –

- **html_head_inner** (*str*) –

Return type str

__render_template_text_raw(*template*, ***kwargs*)

Parameters **template** (*str*) –

Return type str

_on_api_copy(*request*)

_on_api_delete(*request*)

_on_api_details(*request*)

_on_api_dir(*request*)

_on_api_known_tags(*_*)

_on_api_mkdir(*request*)

_on_api_move(*request*)

_on_api_rename(*request*)

_on_api_set_comment(*request*)

_on_api_set_geo(*request*)

_on_api_set_rating(*request*)

_on_api_tag_entries(*request*)

_on_api_thumbnail(*request*)

_on_api_untag_entries(*request*)

_on_api_upload(*request*)

_on_api_zip(*request*)

_on_api_zip_download(*request*, *zipid*)

_on_help(*_*)

_on_static(*_*, *filepath*)

url_internals_name = '.~__lawwenda__int~'

class lawwenda.fmapp.**_RenderTemplateValue**(*s*)

Bases: object

property unescaped

class lawwenda.fmapp.**_TempZips**

Bases: object

class _TempZip(*nodes*)

Bases: object

Parameters **nodes** (*List[lawwenda.fs.Filesystem.Node]*) –

_TempZip__is_executable(*node*)

Parameters **node** (lawwenda.fs.Filesystem.Node) –

Return type bool

_TempZip__putnode(*node*, *zipf*)

Parameters

- **node** (lawwenda.fs.Filesystem.Node) –
- **zipf** (*zipfile.ZipFile*) –

Return type None

property bytes

classmethod _TempZips__cleanup_loop()

_cleanup_thread = None

_lock = <unlocked _thread.lock object>

_zips = {}

classmethod create_tempzip(*owner*, *nodes*)

Parameters

- **owner** (*object*) –
- **nodes** (*List[lawwenda.fs.Filesystem.Node]*) –

Return type str

classmethod get_tempzip(*owner*, *zipid*)

Parameters

- **owner** (*object*) –
- **zipid** (*str*) –

Return type Optional[bytes]

1.1.7 lawwenda.fs module

class lawwenda.fs.**AbstractFilesystemDecorator**(*inner*)

Bases: *lawwenda.fs.Filesystem*

Parameters **inner** (lawwenda.fs.Filesystem) –

_eval_predicate(*pred*, *node*)

exception lawwenda.fs.**CircularTraversalError**

Bases: OSError

class lawwenda.fs.**ExcludeNodesFilesystemAdapter**(*inner*, *pred*)

Bases: *lawwenda.fs.AbstractFilesystemDecorator*

Parameters

- **inner** (lawwenda.fs.Filesystem) –
- **pred** (*Callable[[Filesystem.Node], bool]*) –

child_nodes(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type List[*lawwenda.fs.Filesystem.Node*]

get_readhandle(*node*)

get_writehandle(*node*)

class lawwenda.fs.**Filesystem**

Bases: object

class Node(*path*, *, *filesystem*)
Bases: object

Parameters

- **path** (*str*) –
- **filesystem** (Filesystem) –

property _filesystem
Return type *Filesystem*
Return type *Filesystem*
Return type *Filesystem*
Return type *Filesystem*

add_tag(*tag*)
Parameters **tag** (*str*) –
Return type None

property basics_as_dict

child_by_name(*name*)
Parameters **name** (*str*) –
Return type *lawwenda.fs.Filesystem.Node*

property child_nodes
Return type t.List["Filesystem.Node"]
Return type t.List["Filesystem.Node"]
Return type t.List["Filesystem.Node"]
Return type t.List["Filesystem.Node"]

property comment
Return type str
Return type str
Return type str
Return type str

copy_to(*newpath*)
Parameters **newpath** (*str*) –
Return type None

delete()
Return type None

property dirpath
Return type str
Return type str
Return type str
Return type str

property exists
Return type bool
Return type bool
Return type bool
Return type bool

property full_as_dict

property geo
Return type str
Return type str

Return type str
Return type str

property geo_obj
Return type pimetadatainterpreter.GeoLocation
Return type pimetadatainterpreter.GeoLocation
Return type pimetadatainterpreter.GeoLocation
Return type pimetadatainterpreter.GeoLocation

property has_preview
Return type bool
Return type bool
Return type bool
Return type bool

property has_thumbnail
Return type bool
Return type bool
Return type bool
Return type bool

property icon_name
Return type t.Optional[str]
Return type t.Optional[str]
Return type t.Optional[str]
Return type t.Optional[str]

property is_dir
Return type bool
Return type bool
Return type bool
Return type bool

property is_file
Return type bool
Return type bool
Return type bool
Return type bool

property is_hidden
Return type bool
Return type bool
Return type bool
Return type bool

property is_link
Return type bool
Return type bool
Return type bool
Return type bool

property is_writable
Return type bool
Return type bool
Return type bool
Return type bool

property mimetype
Return type str

Return type str
Return type str
Return type str

mkdir()
Return type None

move_to(*newpath*)
Parameters **newpath** (*str*) –
Return type None

property mtime
Return type datetime.datetime
Return type datetime.datetime
Return type datetime.datetime
Return type datetime.datetime

property mtime_ts
Return type float
Return type float
Return type float
Return type float

property name
Return type str
Return type str
Return type str
Return type str

property parent_node
Return type *Filesystem.Node*
Return type *Filesystem.Node*
Return type *Filesystem.Node*
Return type *Filesystem.Node*

property path
Return type str
Return type str
Return type str
Return type str

property preview_html
Return type str
Return type str
Return type str
Return type str

property rating
Return type int
Return type int
Return type int
Return type int

read_file()
Return type BinaryIO

remove_tag(*tag*)
Parameters **tag** (*str*) –
Return type None

set_comment(*comment*)
Parameters **comment** (*str*) –
Return type None

set_geo(*geo*)
Parameters **geo** (*str*) –
Return type None

set_rating(*rating*)
Parameters **rating** (*int*) –
Return type None

property size
Return type int
Return type int
Return type int
Return type int

property tags
Return type t.List[str]
Return type t.List[str]
Return type t.List[str]
Return type t.List[str]

property tagstring
Return type str
Return type str
Return type str
Return type str

thumbnail()
Return type bytes

traverse_dir(*, *raise_on_circle*, *param_path=''*)
Parameters
- **raise_on_circle** (*bool*) –
- **param_path** (*str*) –

Return type Iterable[Tuple[*lawwenda.fs.Filesystem.Node*, str]]

try_get_fullpath(*, *writable*)
Parameters **writable** (*bool*) –
Return type Optional[str]

write_file(*content*)
Parameters **content** (*Union[bytes, BinaryIO]*) –
Return type None

class ReadHandle(*node*)
Bases: object

Read and write handles are just a stupid container that hold one *Filesystem.Node*.

This looks stupid at first, because you could just use this node directly instead. The added value of handles are a central mechanism for access control, which would be a bit less obvious and more scattered in code without this indirection.

Of course it cannot avoid a way around it in code. An attacker that can change the code has won anyway. It just simplifies writing correct code that hopefully does not provide ways around it for the client.

See *Filesystem.get_readhandle()* and *Filesystem.get_writehandle()*.

Parameters **node** (Filesystem.Node) –

class WriteHandle(*node*)

Bases: *lawwenda.fs.Filesystem.ReadHandle*

See *Filesystem.ReadHandle*.

Parameters **node** (Filesystem.Node) –

add_tag(*handle*, *tag*)

Parameters

- **handle** (lawwenda.fs.Filesystem.WriteHandle) –
- **tag** (*str*) –

Return type None

child_nodes(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type List[*lawwenda.fs.Filesystem.Node*]

comment(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type str

copy_to(*srchandle*, *desthandle*)

Parameters

- **srchandle** (lawwenda.fs.Filesystem.ReadHandle) –
- **desthandle** (lawwenda.fs.Filesystem.WriteHandle) –

Return type None

delete(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.WriteHandle) –

Return type None

exists(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

geo(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type lawwenda._aux.PiMetadataInterpreter.pimetadatainterpreter.GeoLocation

get_readhandle(*node*)

Parameters **node** (lawwenda.fs.Filesystem.Node) –

Return type *lawwenda.fs.Filesystem.ReadHandle*

get_writehandle(*node*)

Parameters **node** (lawwenda.fs.Filesystem.Node) –

Return type *lawwenda.fs.Filesystem.WriteHandle*

has_preview(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

has_thumbnail(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

is_dir(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

is_file(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

is_hidden(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

is_link(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bool

known_tags()

Return type List[str]

mimetype(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type str

mkdir(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.WriteHandle) –

Return type None

move_to(*srchandle*, *desthandle*)

Parameters

- **srchandle** (lawwenda.fs.Filesystem.WriteHandle) –
- **desthandle** (lawwenda.fs.Filesystem.WriteHandle) –

Return type None

mtime(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type datetime.datetime

node_by_path(*path*)

Parameters **path** (*str*) –

Return type *lawwenda.fs.Filesystem.Node*

preview_html(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type str

rating(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type int

read_file(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type BinaryIO

remove_tag(*handle*, *tag*)

Parameters

- **handle** (lawwenda.fs.Filesystem.WriteHandle) –
- **tag** (*str*) –

Return type None

property rootnode

Return type *Filesystem.Node*

Return type *Filesystem.Node*

Return type *Filesystem.Node*

Return type *Filesystem.Node*

static sanitize_abspath(*path*)

Sanitizes slashes in a path and returns a path in the form */foo/bar*. Precisely:

- with a slash in the beginning
- without a slash at the end (exception: root path)
- without double slashes
- with .. and . resolved
- root path: `/`

Parameters **path** (*str*) – The input path.

Return type str

set_comment(*handle*, *comment*)

Parameters

- **handle** (lawwenda.fs.Filesystem.WriteHandle) –
- **comment** (*str*) –

Return type None

set_geo(*handle*, *geo*)

Parameters

- **handle** (lawwenda.fs.Filesystem.WriteHandle) –
- **geo** (*str*) –

Return type None

set_rating(*handle*, *rating*)

Parameters

- **handle** (lawwenda.fs.Filesystem.WriteHandle) –
- **rating** (*int*) –

Return type None

size(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type int

tags(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type List[str]

thumbnail(*handle*)

Parameters **handle** (lawwenda.fs.Filesystem.ReadHandle) –

Return type bytes

try_get_fullpath(*handle*, *, *writable*)

Parameters

- **handle** (*Union[*Filesystem.ReadHandle, Filesystem.WriteHandle*]*) –
- **writable** (*bool*) –

Return type Optional[str]

write_file(*handle*, *content*)

Parameters

- **handle** (lawwenda.fs.Filesystem.WriteHandle) –
- **content** (*Union[bytes, BinaryIO]*) –

Return type None

class lawwenda.fs.**HideNodesFilesystemAdapter**(*inner*, *pred*)

Bases: *lawwenda.fs.AbstractFilesystemDecorator*

Parameters

- **inner** (lawwenda.fs.Filesystem) –
- **pred** (*Callable[*[Filesystem.Node], *bool]*) –

is_hidden(*handle*)

class lawwenda.fs.**LocalFilesystem**(*rootpath*)

Bases: *lawwenda.fs.Filesystem*

Parameters **rootpath** (*str*) –

__path_to_fullpath(*path*)

Parameters **path** (*str*) –

Return type str

add_tag(*handle*, *tag*)

child_nodes(*handle*)

comment(*handle*)

copy_to(*srchandle*, *desthandle*)

delete(*handle*)

exists(*handle*)

geo(*handle*)

get_readhandle(*node*)

get_writehandle(*node*)

has_preview(*handle*)

has_thumbnail(*handle*)

is_dir(*handle*)

is_file(*handle*)

is_hidden(*handle*)

is_link(*handle*)

known_tags()

mimetype(*handle*)

mkdir(*handle*)

move_to(*srchandle*, *desthandle*)

mtime(*handle*)

preview_html(*handle*)

rating(*handle*)

read_file(*handle*)

remove_tag(*handle*, *tag*)

set_comment(*handle*, *comment*)

set_geo(*handle*, *geo*)

set_rating(*handle*, *rating*)

size(*handle*)

tags(*handle*)

thumbnail(*handle*)

try_get_fullpath(*handle*, *, *writable*)

write_file(*handle*, *content*)

class lawwenda.fs.**ReadOnlyFilesystemAdapter**(*inner*)
Bases: *lawwenda.fs.AbstractFilesystemDecorator*

Parameters **inner** (lawwenda.fs.Filesystem) –

get_writehandle(*node*)

class lawwenda.fs.**_PredicateFactory**
Bases: object

static excludehidden(*node*)

static false(*node*)

static p_descending(*pred*)

static p_not(*pred*)

static p_or(**preds*)

static p_regexp(*restr*)

static p_tag(*tag*)

lawwenda.fs.**create_filesystem**(*rootpath*, ***, *readonly*, *hide_by_patterns=()*, *hide_by_tags=()*, *include_by_patterns=None*, *include_by_tags=None*, *exclude_by_patterns=()*, *exclude_by_tags=()*, *exclude_hidden=False*)

Parameters

- **rootpath** (*str*) –
- **readonly** (*bool*) –
- **hide_by_patterns** (*Iterable[str]*) –
- **hide_by_tags** (*Iterable[str]*) –
- **include_by_patterns** (*Optional[Iterable[str]]*) –
- **include_by_tags** (*Optional[Iterable[str]]*) –
- **exclude_by_patterns** (*Iterable[str]*) –
- **exclude_by_tags** (*Iterable[str]*) –
- **exclude_hidden** (*bool*) –

Return type *lawwenda.fs.Filesystem*

1.1.8 lawwenda.lawwenda_cli module

The Lawwenda command line interface.

This tool is used by the end user for creating and managing shares and more. It can be called with some command line arguments for a particular action, or without parameters (which will open an interactive Python prompt for further actions).

Do not use this module in code. See *lawwenda.Configuration* instead.

lawwenda.lawwenda_cli.**_fmt_cmd**(*txt*)

Parameters **txt** (*str*) –

Return type str

lawwenda.lawwenda_cli.**_quickstart**(*cfgpath*)

Parameters **cfgpath** (*str*) –

Return type str

lawwenda.lawwenda_cli.**add_share**(*, *cfg*, *name*, *path*, *title*, *active_until*, *hide_by_pattern*, *hide_by_tag*, *include_by_pattern*, *include_by_tag*, *exclude_by_pattern*, *exclude_by_tag*, *exclude_hidden*, *readonly*)

Add a share.

See *lawwenda.Configuration.add_share()*.

Parameters

- **cfg** (lawwenda.Configuration) –
- **name** (*str*) –
- **path** (*str*) –
- **title** (*str*) –
- **active_until** (*str*) –
- **hide_by_pattern** (*List[str]*) –
- **hide_by_tag** (*List[str]*) –
- **include_by_pattern** (*List[str]*) –
- **include_by_tag** (*List[str]*) –
- **exclude_by_pattern** (*List[str]*) –
- **exclude_by_tag** (*List[str]*) –
- **exclude_hidden** (*bool*) –
- **readonly** (*bool*) –

Return type None

lawwenda.lawwenda_cli.**console**(*, *cfg*)

Open an interactive Python console.

The user will get a small help text and is then able to configure Lawwenda by typing Python code.

Parameters **cfg** (lawwenda.Configuration) – The initial value for the *cfg* variable inside the console.

Return type None

lawwenda.lawwenda_cli.**describe_share**(*, *cfg*, *name*)

Return a textual share description (i.e. how it is configured) for a share.

Parameters

- **cfg** (lawwenda.Configuration) –
- **name** (*str*) –

Return type str

lawwenda.lawwenda_cli.**generate_wsgi**(*, *cfg*)

Parameters **cfg** (lawwenda.Configuration) –

Return type str

lawwenda.lawwenda_cli.**list_shares**(*, *cfg*)
Return a list of share names as string, one line for each share.

Parameters **cfg** (lawwenda.Configuration) –

Return type str

lawwenda.lawwenda_cli.**main**()
Parse command line arguments and call the right function with its arguments.

lawwenda.lawwenda_cli.**remove_share**(*, *cfg*, *name*)
Remove a share.

See *lawwenda.Configuration.remove_share()*.

Parameters

- **cfg** (lawwenda.Configuration) –
- **name** (*str*) –

Return type None

lawwenda.lawwenda_cli.**run_dev_server**(*, *cfg*)

Parameters **cfg** (lawwenda.Configuration) –

Return type None

1.1.9 lawwenda.server module

class lawwenda.server.**Server**(*, *cfgpath=None*)
Bases: object

Parameters **cfgpath** (*Optional[str]*) –

class **_ShareAppInst**(*share*)
Bases: object

Parameters **share** (lawwenda.Share) –

property **app**
Return type *lawwenda.fmapp.FmApp*
Return type *lawwenda.fmapp.FmApp*
Return type *lawwenda.fmapp.FmApp*
Return type *lawwenda.fmapp.FmApp*

property **is_active**
Return type bool
Return type bool
Return type bool
Return type bool

__get_app_for_share(*sharename*)

Parameters **sharename** (*str*) –

1.1.10 Module contents

User side API for reading and modifying Lawwenda configurations, creating shares, and more.

For most cases, instantiate *Configuration* and use some if its methods.

class lawwenda.**Configuration**(*cfgpath=None*)

Bases: object

Parameters **cfgpath** (*Optional[str]*) – The path of the configuration directory. Will be created on demand if it does not exist. Defaults to a location that is usual for your operating system.

__verify_valid_name()

Parameters **name** (*str*) –

Return type None

add_share(*path*, ***, *name*, *password*, *title=None*, *readonly=True*, *hide_by_patterns=()*, *hide_by_tags=()*, *include_by_patterns=None*, *include_by_tags=None*, *exclude_by_patterns=()*, *exclude_by_tags=()*, *exclude_hidden=False*, *active_until=None*)

Add a new share.

Parameters

- **path** (*str*) – The directory to share. See *Share.path*.
- **name** (*str*) – The unique name of the new share. See *Share.name*.
- **password** (*Optional[str]*) – The password to protect the share with.
- **title** (*Optional[str]*) – The share title. See *Share.title*.
- **readonly** (*bool*) – If to share in a read-only way. See *Share.readonly*.
- **hide_by_patterns** (*Iterable[str]*) – See *Share.hide_by_patterns*.
- **hide_by_tags** (*Iterable[str]*) – See *Share.hide_by_tags*.
- **include_by_patterns** (*Optional[Iterable[str]]*) – See *Share.include_by_patterns*.
- **include_by_tags** (*Optional[Iterable[str]]*) – See *Share.include_by_tags*.
- **exclude_by_patterns** (*Iterable[str]*) – See *Share.exclude_by_patterns*.
- **exclude_by_tags** (*Iterable[str]*) – See *Share.exclude_by_tags*.
- **exclude_hidden** (*bool*) – See *Share.exclude_hidden*.
- **active_until** (*Optional[datetime.datetime]*) – The optional expiration time of the share. See *Share.active_until*.

Return type *lawwenda.Share*

generate_wsgi()

Return type str

get_share_by_name(*name*)

Return the share by a name (or *None* if it does not exist).

Parameters **name** (*str*) –

Return type Optional[*lawwenda.Share*]

get_shares()
Return all shares that are currently part of this configuration.

Return type List[*lawwenda.Share*]

property path
The path of the configuration directory.

Return type str

Return type str

Return type str

Return type str

peek_share_cache_tag(*name*)

Parameters **name** (*str*) –

Return type Optional[object]

remove_share(*name*)
Remove a share.

Parameters **name** (*str*) – The name of the share to remove.

Return type None

run_dev_server()

Return type *lawwenda.devserver._DevServerInfo*

class lawwenda.**Share**(*path*, ***, *configuration*, *name*, *title*, *readonly=True*, *hide_by_patterns=()*, *hide_by_tags=()*, *include_by_patterns=None*, *include_by_tags=None*, *exclude_by_patterns=()*, *exclude_by_tags=()*, *exclude_hidden=False*, *password_scrypt=None*, *password_salt=None*, *active_until_timestamp=None*)
Bases: object

A directory path together with some parameters (e.g. for access control) for sharing via Lawwenda. Read the documentation for more about shares.

This class is not intended to be instantiated directly. You will get instances by some other api methods.

Parameters

- **path** (*str*) –
- **configuration** (Configuration) –
- **name** (*str*) –
- **title** (*str*) –
- **readonly** (*bool*) –
- **hide_by_patterns** (*Iterable[str]*) –
- **hide_by_tags** (*Iterable[str]*) –
- **include_by_patterns** (*Optional[Iterable[str]]*) –
- **include_by_tags** (*Optional[Iterable[str]]*) –
- **exclude_by_patterns** (*Iterable[str]*) –
- **exclude_by_tags** (*Iterable[str]*) –
- **exclude_hidden** (*bool*) –

- **password_scrypt** (*Optional[str]*) –
- **password_salt** (*Optional[str]*) –
- **active_until_timestamp** (*Optional[float]*) –

_set_cache_tag(*cachetag*)

Parameters **cachetag** (*object*) –

Return type None

_to_dict()

property active_until

The expiration time of this share, or *None* for infinite.

Return type t.Optional[datetime.datetime]

Return type t.Optional[datetime.datetime]

Return type t.Optional[datetime.datetime]

Return type t.Optional[datetime.datetime]

property active_until_timestamp

Same as *active_until*, but as Unix timestamp.

Return type t.Optional[float]

Return type t.Optional[float]

Return type t.Optional[float]

Return type t.Optional[float]

property cache_tag

Return type object

Return type object

Return type object

Return type object

property configuration

The configuration that contains this share.

Return type *Configuration*

Return type *Configuration*

Return type *Configuration*

Return type *Configuration*

property exclude_by_patterns

A list of regular expressions of paths for excluding.

A file or directory will be excluded if its path matches at least one of them. Those paths are always relative to *path*, always start with a '/', but never end with a one (unless it is the root path).

Exclusions are enforced on backend side and not just a presentation aspect. There is no way for a client to work around that (unless there is a software bug).

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property exclude_by_tags
A list of tags for excluding files and directories.

Exclusions are enforced on backend side and not just a presentation aspect. There is no way for a client to work around that (unless there is a software bug).

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property exclude_hidden
If to consider 'hidden' flags of files or directories as exclusions.

Exclusions are enforced on backend side and not just a presentation aspect. There is no way for a client to work around that (unless there is a software bug).

Return type bool

Return type bool

Return type bool

Return type bool

property hide_by_patterns
A list of regular expressions of paths for hiding.

A file or directory will be hidden if its path matches at least one of them. Those paths are always relative to *path*, always start with a *'/'*, but never end with a one (unless it is the root path).

Note that hiding is not a security feature unless *exclude_hidden* is set.

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property hide_by_tags
A list of tags for hiding files and directories.

A file or directory will be hidden if it is tagged with at least one of them.

Note that hiding is not a security feature unless *exclude_hidden* is set.

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property include_by_patterns
A list of regular expressions of paths for including explicitly.

Those paths are always relative to *path*, always start with a *'/'*, but never end with a one (unless it is the root path).

If this is specified, the share will switch from blacklist to whitelist. Everything that is not considered as included is implicitly considered as excluded.

Return type t.Optional[t.Iterable[str]]

Return type t.Optional[t.Iterable[str]]

Return type t.Optional[t.Iterable[str]]

Return type t.Optional[t.Iterable[str]]

property include_by_tags
A list of tags for including files and directories.

If this is specified, the share will switch from blacklist to whitelist. Everything that is not considered as included is implicitly considered as excluded.

Return type t.Optional[t.Iterable[str]]

Return type t.Optional[t.Iterable[str]]

Return type t.Optional[t.Iterable[str]]

Return type t.Optional[t.Iterable[str]]

property is_active
If this share is currently active (e.g. not yet expired; see *active_until*).

Return type bool

Return type bool

Return type bool

Return type bool

property name
The share name.

This usually makes the last part of the url to this share. Is unique in the containing *configuration*.

Return type str

Return type str

Return type str

Return type str

property password_salt
The hash salt of the password for this share, if password protected.

See also *password_scrypt*.

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

property password_scrypt
The scrypt hash of the password for this share.

Empty or *None* for disabled password protection. See also *password_salt*.

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

property path

The path of the share's root directory.

Return type str

Return type str

Return type str

Return type str

property readonly

If this share is restricted to only read actions (no removal, copying, uploading, editing, ... of the files and directories in *path*).

Return type bool

Return type bool

Return type bool

Return type bool

property title

The share title.

This is an arbitrary text shown in the window title. Should not contain line breaks and should be short.

Return type str

Return type str

Return type str

Return type str

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